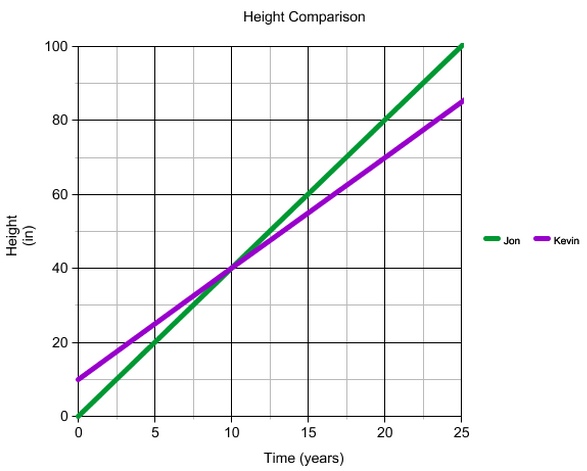
**CLASS COPY – DO NOT WRITE ON**

CW 20: Writing Linear Equations

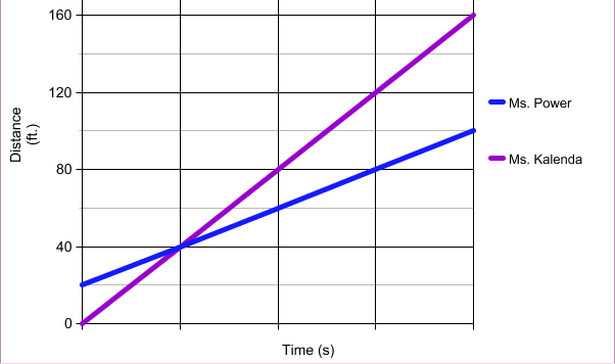
**Honors Geometry**

1. Each notebook in a store costs $7, and each rubber band costs $2. If you want to spend exactly $27, write an equation modeling this situation. *(Let x represent the number of notebooks and y represent the number of rubber bands).*
2. In a supermarket, apples cost $0.50 each, and grapefruits cost $2 each. If you want to spend exactly $15 at the supermarket, write an equation modeling this situation. *(Let x represent the number of apples and y represent the number of grapefruits)*
3. Tessa went to the store and spent a total of $85. She bought *x* amount of shirts that cost $15 each and *y* amount of pants that cost $40 each. Write an equation to represent this situation.
4. The cost of admission to a popular music concert was $162 for 12 children and 3 adults. Write an equation to represent this situation. *(Let x represent the cost of children and y represent the cost of adults)*

**Answer the following questions using the *Height Comparison* graph to the right.**

1. Who is grew at a faster rate? Explain how you know.
2. How fast is **Kevin** growing?
3. How fast is **Jon** growing?
4. At what year does Jon’s height overtake Kevin’s?
5. Write a **linear equation** that models Kevin’s growth.
6. Write a **linear equation** that models Jon’s growth.

**To the right, you have a graph that shows a race between Ms. Power and Ms. Kalenda. Ms. Power got a 20 foot head start.**



**First Day’s Race**

1. How fast is Ms. Power running?
2. How fast is Ms. Kalenda running?
3. Write the equation of the line that describes Ms. Power’s race.

14. Write the equation of the line that describes Ms. Kalenda’s race.

Write the equation of the line that travels through the given point with the given slope.

15. through: slope = 16. through slope =

17. through slope = 1 18. through , slope =

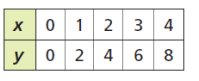
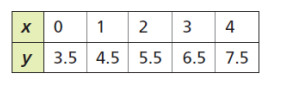
19. Write the equation of the line that passes through and .

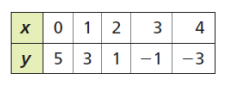
20. Write the equation of the line that passes through and .

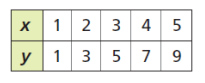
21. Write the equation of the line that passes through and .

22. Write the equation of the line that passes through the origin and

#23 – 26: Find the slope and y – intercept for each table, and then write an equation of the line.







#27 – 30: Write an equation in **slope-intercept form** to describe the graphs shown below:

